Reconstruction of 345kV Transmission Line

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August 17, 2017
Storm – June 16, 2017

- Winds -100 mph, 2 tornadoes –135 mph
- 56 dist. circuit lockouts (North Bend to Syracuse)
  - 425 poles, 30 miles of line
- 9 transmission circuits damaged
  - 106 poles, 12 miles of line
- 76,500 customers out
- 4th worst storm in history based on outages
Transmission Status

• Worst storm in history based on transmission damage
• Only one 345kV circuit remains out
  – 7 miles, 47 structures
  – La Vista to Platte River
• Managing reliability through operational tools
  – Transmission congestion
  – Generation unit re-dispatch
• SD-4 Reliability – Reconstruction under way
Transmission Damage
Transmission Reconstruction

• Reasons for Urgency
  – System reliability
  – Generation flexibility
  – Planned work outages (maintenance and construction)
  – Restore prior to summer peak load (June 1, 2018)

• Replacing wood structures with steel
• Increasing capacity and resiliency
Transmission Reconstruction

Old Structures

New Structures